

Seattle Fire Department Permit Application

Repair Garage

Level I
--Revised 1/2005--



- | | | |
|-------------------------------------|---------------|----------------------------------|
| <input type="checkbox"/> Code: 2901 | Fee: \$152.00 | No Hazardous Activities |
| <input type="checkbox"/> Code: 2902 | Fee: \$266.00 | One Hazardous Activity |
| <input type="checkbox"/> Code: 2903 | Fee: \$399.00 | Two or More Hazardous Activities |

TO BE COMPLETED BY PERMIT APPLICANT (PLEASE PRINT)

FIRM NAME		
MAILING ADDRESS		SUITE
CITY	STATE	ZIP
OPERATION ADDRESS		
CONTACT PERSON		PHONE NUMBER ()
Please include a check made payable to the CITY OF SEATTLE with this application.		

Permit applications may be submitted in person weekdays from 8:00 a.m. to 4:30 p.m., or mailed to:

Seattle Fire Department
Fire Marshal's Office—Permits
220 Third Avenue South, Second Floor
Seattle, WA 98104-2608

Permit Processing: (206) 386-1025
www.seattle.gov/fire

TO BE COMPLETED BY INSPECTING ENGINE/LADDER COMPANY:

TYPE OF MATERIAL	AMOUNT	LOCATION
Example: Class I-B Liquids 2 Oxy-Acetylene Units 3 Parts Washing Tanks using class II liquids	2-15 gallon containers 2-cylinders each oxygen/acetylene 2-10 gallon tanks; 1-20 gallon tank	Flammable liquid cabinet in SE corner. Corner of shop near SW corner. Along west wall of shop.
<input type="checkbox"/> Permit Conditions Approved		
Inspected By:	C/P/O:	SFD ID#:
Station No.	Occ. No.:	Date:
Special Permit Conditions: (continue on back if necessary)		

FMO OFFICE USE ONLY:

Date Received:	Receipt No.:	Check No.:
Expiration Date with Existing Permits:		Application ID#
<input type="checkbox"/> Cancel with full refund <input type="checkbox"/> Cancel, no refund <input type="checkbox"/> Moved <input type="checkbox"/> No Longer Needs <input type="checkbox"/> Out of Business		

PERMIT CONDITIONS:

All of the following conditions must be met prior to the issuance of this permit:

GENERAL:

1. Waste oil, motor oil and other Class III-B combustible liquids shall be stored in approved containers or tanks. Lubricating oil and crankcase drainings which has been drained from motor vehicles shall be treated as a Class III-B liquid. Liquid mixtures of fuel and lubricating oil shall be treated as Class I liquids. (2003 SFC 2211.2.2 and 105.3)
2. Oily rags and similar waste materials shall be stored in metal containers equipped with self-closing lids. (2003 SFC 2211.2.3)
3. Crankcase drainings and liquids shall not be dumped into sewers, streams or on the ground but shall be stored in approved tanks or containers until removed from the premises. (2003 SFC 2211.2.3)
4. Garage floor drains shall drain to approved oil separators or traps discharging to a sewer. (2003 SFC 2211.2.3)
5. Contents of oil separators, traps and floor drainage systems shall be collected at sufficiently frequent intervals and removed from the premises. (2003 SFC 2211.2.3)
6. Class I and II liquids which have been drained from vehicles and stored in individual containers exceeding 5.3 gallons (20L) shall be transferred by one of the following methods:
 - From safety cans complying with UL 30,
 - Through an approved closed piping system,
 - From containers or tanks by an approved pump taking suction through an opening in the top of the container or tank,
 - For Class I-B, I-C and II liquids, from containers or tanks by gravity through an approved self- or automatic-closing valve when the container or tank and dispensing operations are provided with spill control and secondary containment. Class I-A liquids shall not be dispensed by gravity from tanks, or
 - Approved engineered liquid-transfer systems. (2003 SFC 2211.2 and 3405.2.4)
7. Smoking and open flames are prohibited in areas used for servicing motor vehicles. No smoking shall be enforced. NO SMOKING signs shall be posted in visible locations in the service area. Signs shall be made of a durable material with lettering on a contrasting background. Letters shall be not less than 3 inches in height and 1/2 inch in stroke. (2003 SFC 2211.3.2 and 310)
8. Sources of ignition, including but not limited to, electrical outlets, shall not be within 18 inches of the floor unless rated for Class I, Division 1 hazardous locations. (2003 SFC 2211.3)
9. A portable fire extinguisher with a minimum rating of 40 BC shall be within 30 feet of the service area(s). (2003 SFC 906)

PARTS WASHING:

1. Class I-A liquids shall not be used for cleaning. (2003 SFC 3405.3.6.1)
2. Parts washing with Class I-B, I-C, II and III-A liquids shall be conducted:
 - In a machine listed and approved for the purpose and solvent contained or,
 - In a room or building constructed and approved for quantities exceeding the maximum allowable quantities. (2003 SFC 3405.3.6.1)
3. Listed and approved parts washing machines shall be located in areas which are supplied with ventilation adequate to prevent the accumulation of vapors. (2003 SFC 3405.3.6.2.6)
4. Solvents used for cleaning or degreasing parts shall be classified and shall be compatible with the listed and approved machines within which they are used. (2003 SFC 3405.3.6.2.1)
5. The quantity of solvent used in a listed or approved machine shall not exceed the design capacity of the machine. (2003 SFC 3405.3.6.2.2)

6. Machines with remote solvent reservoirs using Class I liquids, and machines without remote solvent reservoirs, shall have quantities limited to the following: (2003 SFC 3405.3.6.2.3)

Solvent Class	In Unsprinklered Buildings	In Sprinkled Buildings
I-B and I-C	30 gallons	60 gallon
II	30 gallons	60 gallons
III-A	80 gallons	160 gallons

7. Machines with remote solvent reservoirs using Class II liquids shall not be excess of 35 gallons per machine. The total quantities shall not exceed an aggregate of 240 gallons per control area in unsprinklered buildings and an aggregate of 480 gallons per control area in sprinklered buildings. (2003 SFC 3405.3.6.2.3)
8. Machines with remote solvent reservoirs using Class III-A liquids shall not exceed 80 gallons per machine. (2003 SFC 3405.3.6.2.3)
9. Work areas of machines with remote solvent reservoirs shall not be used for immersion soaking of parts. (2003 SFC 3405.3.6.2.4)
10. Multiple machines shall be separated by a distance of not less than 30 feet or by a fire barrier with a minimum one hour fire-resistance rating. (2003 SFC 3405.3.6.2.5)
11. Storage of flammable or combustible liquids in excess of 5 gallons shall be stored in approved safety cans or original containers. (2003 SFC 3404.3.1.1)
12. Storage of quantities of flammable and combustible liquids in excess of 10 gallons shall be stored in an approved flammable liquids storage cabinet. Quantities not exceeding 10 gallons are allowed to be stored outside of a cabinet when in approved containers. (2003 SFC 3404.3.4.4)
- Note: Approved cabinets are UL listed or FM approved or constructed to the specifications outlined in SFC 3404.3.2.
13. A portable fire extinguisher with a minimum rating of 40 BC shall be located within 30 feet of the parts washer. (2003 SFC 3403.2.1 and Table 906.3(2)).
14. "NO SMOKING" signs shall be posted in a visible location in the area of the part washing tank(s). Signs shall be made of a durable material with lettering on a contrasting background. Letters shall be not less than 3 inches in height and 1/2 inch in stroke. (2003 SFC 310.2 and 310.3)

INCIDENTAL STORAGE AND USE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS:

1. Material safety data sheets shall be readily available on the premises for all materials regulated by this permit. (2003 SFC 2703.4)
2. A minimum rated 40BC fire extinguisher shall be located within 30 feet of all flammable and combustible liquid storage and use. (2003 SFC 3403.2.1, 906)
3. All products are to be stored in approved containers and shall be conspicuously labeled or marked as to their contents. (2003 SFC 3404.3.1.1)
4. Storage of empty containers previously used for the storage of flammable liquids, unless free from explosive vapors, shall be stored and counted as filled. (2003 SFC 3404.3.3.4)
5. "NO SMOKING" signs shall be posted in conspicuous locations around storage, use and dispensing areas. Signs shall be made of durable material with red letters on a white background. Lettering shall not be less than 3-in. in height and 1/2-in. in stroke. (2003 SFC 2703.7)
6. Smoking, open flame or other sources of ignition shall be prohibited in storage areas and within 25 feet of any dispensing area. (2003 SFC 2703.7.1)
7. Quantities of flammable or combustible liquids in excess of 10 gallons used for maintenance purposes and the operation of equipment shall be stored in approved liquid storage cabinets. Quantities not exceeding 10 gallons are allowed to be stored outside of a cabinet when in approved containers located in private garages or other approved locations. (2003 SFC 3404.3.4.4)

8. Flammable and combustible liquids shall not be stored near exit doorways, stairways, or in locations that would impede egress. (2003 SFC 3404.3.3.3)
9. Class I liquids shall not be stored in basements. Class II and III-A combustible liquids are allowed to be stored only in basements that are protected throughout by an approved automatic fire suppression system. (2003 SFC 3404.3.5.1)
10. Storage on shelves is allowed provided such shelves are metal or wood of at least 1-inch nominal thickness and adequately braced and anchored. (2003 SFC 3404.3.3.5)
11. Shelves shall be of sufficient depth and provided with a lip or guard to prevent containers from falling. (2003 SFC 3404.3.3.5)
12. Flammable and combustible liquids stored on shelves shall be stored in an orderly manner. (2003 SFC 3404.3.3.5.3)
13. Defective containers shall be removed from service, repaired or disposed of in an approved manner. (2003 SFC 2703.2.6)
14. Storage of incompatible materials shall be separated from flammable and combustible liquids by a minimum distance of 20 feet, isolated from each other by a noncombustible partition extending not less than 18 in. above and to the sides of the stored materials, or stored in hazardous material storage cabinets.
Exception: Containers of solids and liquids having a capacity of less than 5 pounds or 1/2 gallon when stored in quantities not exceeding exempt amounts. (2003 SFC 3404.3.3.2, 2703.9.8)
15. Exterior storage areas shall be protected against tampering or trespassers by fencing or other control measures. (2003 SFC 3404.4.4)
16. Exterior storage areas shall be kept free of weeds, debris and combustible materials not necessary to the storage. The area surrounding an exterior storage area shall be kept clear of such materials for a minimum distance of 15 feet. (2003 SFC 3404.4.6)
17. Adequate grounding and bonding shall be provided when transferring or dispensing Class I liquids. (2003 SFC 3405.3.2)
18. In the event of a spill or accidental release of a flammable or combustible liquid, inside or outside of buildings, that could present a fire or life safety hazard, the owner or occupant shall immediately report such spill or release to the Fire Department. (2003 SFC 2703.3.1)

HOT WORK:

1. Management shall designate a facility employee to be the "responsible person" who shall be responsible for overseeing the onsite hot workers to ensure that required hot work safety measures are taken to prevent fires and fire spread. (2003 SFC 2602.1)
2. The "responsible person" shall be trained in the safety and fire safety considerations concerned with hot work.
3. The "responsible person" shall survey hot work areas and conduct a pre-hot-work check prior to commencement of hot work. (2003 SFC 2604.3.1)
4. The required pre-hot-work check shall determine compliance with, all of the following:
 - Hot work equipment to be used shall be in satisfactory operating condition and in good repair.
 - Hot work site is clear of combustibles or combustibles are protected.
 - Exposed construction is of noncombustible materials or, if combustible, then protected.
 - Openings are protected.
 - Floors are kept clean.
 - No exposed combustibles are located on the opposite side of partition, walls, ceilings or floors.
 - Fire watches, where required, are assigned.
 - Approved actions have been taken to prevent accidental activation of suppression and detection equipment.
 - Fire extinguishers and fire hoses (where provided) are operable and available. (2003 SFC 2604.3.1)
5. The hot work area shall be inspected by the "responsible person" at least once a day to ensure that the area remains fire-safe. (2003 SFC 2604.3)

6. A fire watch shall be provided during hot work activities and shall continue for a minimum of 30 minutes after the conclusion of the work. The fire code official, or the "responsible person" is authorized to extend the fire watch based on the hazards or work being performed. (2003 SFC 2604.2.1)
7. The fire watch shall be positioned so that the extinguishment of a spot fire is not delayed. Hot work conducted in areas with vertical or horizontal fire exposures that are not observable by a single individual shall have additional personnel assigned to fire watches to ensure that exposed areas are monitored. (2003 SFC 2604.2.2)
8. Individuals designated to fire watch shall have no other duties except to watch for fire, extinguish spot fires and communicate an alarm. (2003 SFC 2604.2.3)
9. The individuals responsible for performing the hot work and individuals responsible for providing the fire watch shall have fire-extinguishing equipment readily available and shall be trained in the use of such equipment. (2003 SFC 2604.2.4)
10. A minimum of one portable fire extinguisher having a minimum 2-A: 40-B:C rating and where required by the fire code official, a charged water hose equipped with a nozzle, shall be readily accessible within 30 feet of the location where hot work is performed. (2003 SFC 2604.2.6)

11. Hot work shall not be performed on containers or equipment that contains or has contained flammable liquids, gases or solids until the containers and equipment have been thoroughly cleaned, inerted or purged and certified safe for hot work by a marine chemist.

Exception: Hot tapping shall be allowed on tanks and pipelines when such work is to be conducted by personnel specifically approved by the fire code official. (2003 SFC 2604.1.7, 105.3)

Marine chemist's certificates where required, shall be posted in a conspicuous location and maintained current. (2003 SFC 105.3)

12. Areas where hot work are conducted shall not contain combustibles or shall be provided with appropriate shielding to prevent sparks, slag or heat from igniting exposed combustibles. (2003 SFC 2604.1.1)
13. Openings or cracks in walls, floors, ducts or shafts within the area where cutting and welding is to be performed shall be tightly covered to prevent the passage of sparks to adjacent combustible areas, or shielding by metal or fire-resistant guards or curtains shall be provided. (2003 SFC 2604.1.2)
14. Floors shall be kept clean within the hot-work area. (2003 SFC 2604.1.3)
15. Oxygen and fuel gas used for hot work shall be limited inside repair garages in accordance with the following:

Type of Gas	Maximum Aggregate Quantity
Acetylene and other nonliquefied fuel gases	1,000 cu. feet in unsprinklered buildings 2,000 cu. feet in sprinklered buildings
LPG	735 lbs. water capacity (300 lbs. LPG)
Compressed oxygen	1,500 cu. feet in unsprinklered buildings 3,000 cu. feet in sprinklered buildings
Liquid oxygen (LOX)	45 gallons in unsprinklered buildings 90 gallons in sprinklered buildings

16. Flammable and combustible liquid storage and dispensing shall be separated from hot work operations by a minimum of 50 feet. (2003 SFC 105.3)
17. Cylinders, valves, regulator, hose and other apparatus and fittings for oxygen shall be kept free from oil or grease. Oxygen cylinders, apparatus and fittings shall not be handled with oily hands, oily gloves, or greasy tools or equipment. (2003 SFC 2605.3)
18. Fuel gas cylinders shall be separated from compressed oxygen cylinders and liquid oxygen containers by a minimum of 20 feet or by a barrier of noncombustible construction at least five feet high giving a fire-resistive rating of at least ½ hour. The barrier shall interrupt all lines of sight between oxygen and fuel gas cylinders within 20 feet of each other. (2003 SFC 2605.4.4)
19. When the hot-work area is accessible to persons other than the operator of the equipment, conspicuous signs shall be posted to warn others before they enter the hot-work area. (2003 SFC 2603.6)

Such signs shall display the following warning: **CAUTION—HOT WORK IN PROGRESS—STAY CLEAR**

ELECTRIC ARC HOT WORK

1. The frame or case of electric hot work machines, except internal-combustion-engine-driven machines, shall be adequately grounded. (2003 SFC 2606.1)
2. Welding return currents from the work to the machine shall have proper electric contact at joints. The electric contact shall be periodically inspected. (2003 SFC 2606.2)
3. Electrodes (i.e. welding rods) shall be removed from the holders when electric arc hot work is discontinued for any period of 1 hour or more. The holders shall be located to prevent accidental contact and the machines shall be disconnected from the power source. (2003 SFC 2606.3)
4. A switch or circuit breaker shall be provided so that fixed electric welders and control equipment can be disconnected from the supply circuit. The switch or circuit breaker shall be marked EMERGENCY DISCONNECT and shall be visible from the equipment. (2003 SFC 2606.4)
5. Damaged cables shall be removed from service until it has been properly repaired or replaced. (2003 SFC 2606.5)